

ELECTRONIC CIRCUIT SYSTEM, AND SIGNAL TRANSMISSION  
METHOD, TO IMPROVE SIGNAL TRANSMISSION EFFICIENCY AND  
SIMPLIFY SIGNAL TRANSMISSION MANAGEMENT

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ABSTRACT OF THE DISCLOSURE

10           An electronic circuit system has at least three  
macro circuits and a plurality of signal lines for  
connecting the macro circuits to one another into a loop.  
Each of the macro circuits includes a logic circuit and a  
memory circuit and has a plurality of input terminals and  
15           a plurality of output terminals. Signals are transmitted  
through the loop in a single specified direction in  
synchronization with a clock signal. Each of the macro  
circuits receives the signals at the input terminals  
thereof, accepts the signals if the signals are destined  
20           for the macro circuit, and transfers the signals to the  
output terminals thereof if the signals are not destined  
for the macro circuit. Even if the macro circuits  
simultaneously transmit signals, the electronic circuit  
system transmits the signals in the specified direction  
25           through the loop in synchronization with the clock signal  
up to destination macro circuits.

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